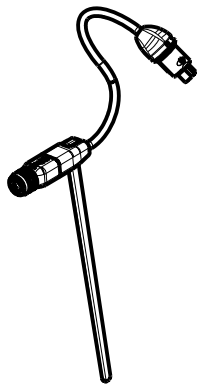
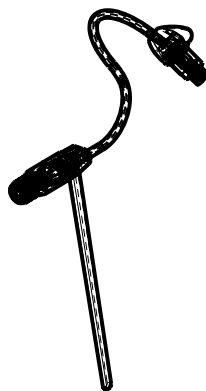


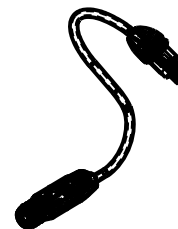
RVA-90020-NXX
SHT 1.1



ISO VIEW:
RVA-90020-N1X SERIES
WITHOUT WIND SHIELD AND HAVE CONCHA LOCK



ISO VIEW:
RVA-90020-N2X SERIES
WITHOUT WIND SHIELD AND CONCHA LOCK



ISO VIEW:
RVA-90020-N3X SERIES
WITHOUT WIND SHIELD AND CONCHA LOCK

DIMENSIONS IN MILLIMETERS [INCHES]

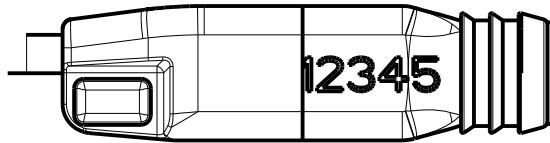
KNOWLES ELECTRONICS
ITASCA, ILLINOIS U.S.A.

Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
E	C40101304	9-10-13	Active	E
D	C40101288	8-15-13		
SCALE: 1:1			DR. BY SDZ	DATE 10-16-09
DO NOT SCALE DRAWING			CK. BY GJP	DATE 10-19-09
TITLE: RIE ASSEMBLY 8113 GENERIC (IN'TECH) OUTLINE DRAWING			APP. BY GJP	DATE 10-19-09
			RVA-90020-NXX SHT 1.1	

ASSEMBLY NUMBER	DESCRIPTION	COLOR	CONTACT ASSIGNMENT				WIND SHIELD	CONCHA LOCK	RVA-90020-NXX SHT 1.3				
			1	2	3	4							
RVA-90020-N31	SIZE 0-BL, (SMALL, LEFT)	BLUE			POS (+)	NEG (-)	NO	NO					
RVA-90020-N32	SIZE 0-BR, (SMALL, RIGHT)	RED			POS (+)	NEG (-)	NO	NO					
RVA-90020-N33	SIZE 1-BL, (MEDIUM, LEFT)	BLUE			POS (+)	NEG (-)	NO	NO					
RVA-90020-N34	SIZE 1-BR, (MEDIUM, RIGHT)	RED			POS (+)	NEG (-)	NO	NO					
RVA-90020-N35	SIZE 2-BL, (LARGE, LEFT)	BLUE			POS (+)	NEG (-)	NO	NO					
RVA-90020-N36	SIZE 2-BR, (LARGE, RIGHT)	RED			POS (+)	NEG (-)	NO	NO					
RVA-90020-N37	SIZE 3-BL, (X-LARGE, LEFT)	BLUE			POS (+)	NEG (-)	NO	NO					
RVA-90020-N38	SIZE 3-BR, (X-LARGE, RIGHT)	RED			POS (+)	NEG (-)	NO	NO					
DIMENSIONS IN MILLIMETERS [INCHES]			Revision		C.O. #		Implementation Date		RELEASE LEVEL		REVISION		
									Active		E		
			E		C40101304		9-10-13						
			D		C40101288		8-15-13						
KNOWLES ELECTRONICS ITASCA, ILLINOIS U.S.A.			SCALE: 1:1							DR. BY		DATE	
			DO NOT SCALE DRAWING							SDZ		10-16-09	
										CK. BY		DATE	
			TITLE: RIE ASSEMBLY 8113 GENERIC (IN'TECH) OUTLINE DRAWING							RVA-90020-NXX SHT 1.3		GJP	
									APP. BY		DATE		
									GJP		10-19-09		

RVA-90020-NXX

SHT 1.4



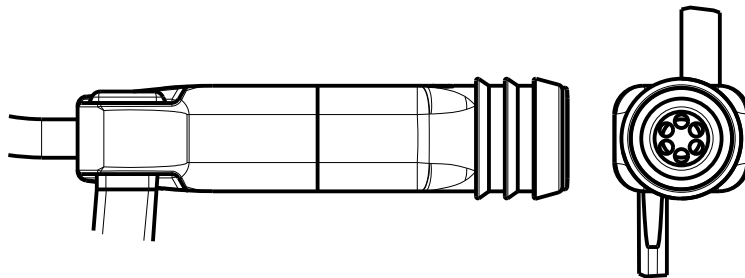
TOP VIEW: RECEIVER DATE CODE MARKING

CONTACT POSITION 4

CONTACT POSITION 1

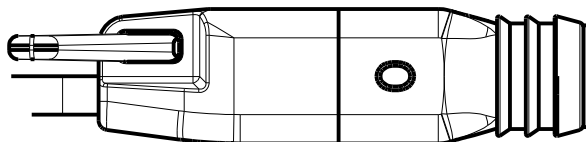
CONTACT POSITION 3

CONTACT POSITION 2

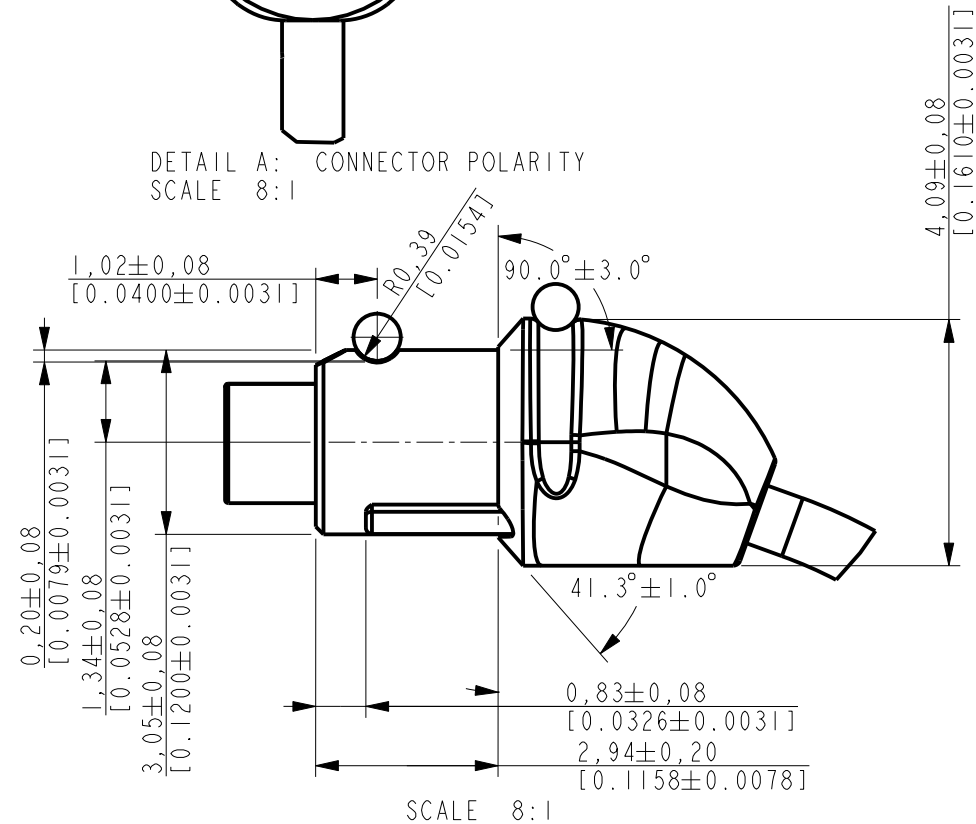
DETAIL A: CONNECTOR POLARITY
SCALE 8:1

SCALE 5:1

BOTTOM VIEW: SIZE CODE MARKING {0, 1, 2, 3, 4}



DIMENSIONS IN MILLIMETERS [INCHES]



Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
E	C40101304	9-10-13	Active	E
D	C40101288	8-15-13		

SCALE:

1:1

DR. BY	DATE
SDZ	10-16-09
CK. BY	DATE
GJP	10-19-09
APP. BY	DATE
GJP	10-19-09

DO NOT SCALE DRAWING

TITLE:

RIE ASSEMBLY
8113 GENERIC (IN'TECH)
OUTLINE DRAWING

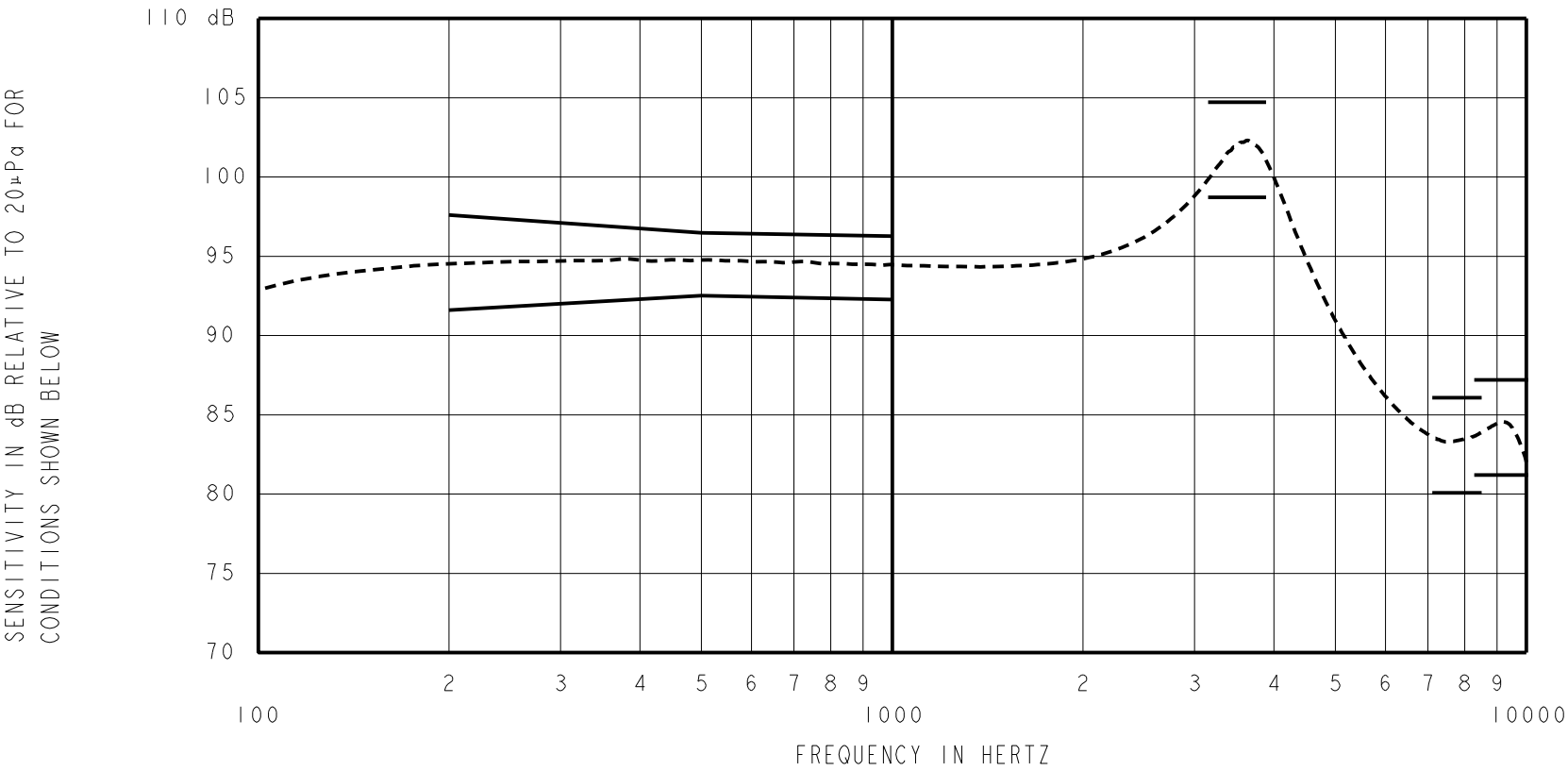
RVA-90020-NXX

SHT 1.4

KET11ASIZE.FRM

Rev: B

KNOWLES ELECTRONICS
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ACOUSTICAL

SENSITIVITY
DEVICE WILL PRODUCE THE SPL LISTED BELOW UNDER TEST CONDITIONS DESCRIBED IN TABLE 3.

LIMIT TYPE	FREQUENCY (Hz)	MINIMUM	NOMINAL	MAXIMUM
ENV	200	91.6	94.6	97.6
ENV	500	92.5	94.5	96.5
ENV	1000	92.3	94.3	96.3
PEAK	3150-3890	98.7	101.7	104.7
VALLEY	7110-8510	80.1	83.1	86.1
PEAK	8280-10070	81.2	84.2	87.2

TABLE 1

TOTAL HARMONIC DISTORTION
DEVICE WILL NOT EXCEED TOTAL HARMONIC DISTORTION LEVELS LISTED BELOW.

FREQUENCY (Hz)	AC DRIVE (Vrms)	DC BIAS (mA)	MAX (%)
1223	0.211	0	5.0
1835	0.211	0	5.0
1223	0.595	0	10.0
1835	0.595	0	10.0

TABLE 2

TEST CONDITIONS

NOMINAL SOURCE VOLTAGE	0.211 Vrms, 0 mA DC BIAS
SOURCE IMPEDANCE	<1 Ohm
TUBING	NONE
COUPLER CAVITY	2 CM ³ , SIMULATED ANSI S3.7 TYPE HA-3 (IEC 60318-5)

TABLE 3

ELECTRICAL

DC RESISTANCE @ 20°C	100.0Ω ± 10%
IMPEDANCE @ 500 Hz	104.9Ω ± 15%
IMPEDANCE @ 1000 Hz	117.8Ω ± 15%

TABLE 4

TEMPERATURE
OPERATING: SENSITIVITY AT 500 Hz WILL NOT VARY MORE THAN +1/-3 dB FROM -17°C TO 63°C
STORAGE: -40°C TO 63°C

MECHANICAL
SOLDER TYPE: SAC305

Revision	C.O. #	Implementation Date	RELEASE LEVEL	REVISION
E	C40101304	9-10-13	Active	E
D	C40101288	8-15-13		
WHEN TEST LIMITS ARE USED TO ESTABLISH INCOMING INSPECTION ACCEPTANCE/REJECTION CRITERIA, CORRELATION OF TEST EQUIPMENT WITH KNOWLES IS ALSO REQUIRED FOR ELIMINATION OF EQUIPMENT AND TEST METHOD VARIATION			DR. BY SDZ	DATE 10-16-09
TITLE: RIE ASSEMBLY 8113 GENERIC (INT' TECH) PERFORMANCE SPECIFICATION			CK. BY GJP	DATE 10-19-09
			APP. BY GJP	DATE 10-19-09
			RVA-90020-NXX SHT 2.1	